GOLIDSHTEYN, V. D., CAND MED SCI, "METABOLISM OF PYRIDOXINE AND NICOTINIC ACID IN PATIENTS-HIPH PULMONARY TUBERCULOSIS UNDER CHEMIOTHERAPY." MOSCOW, 1961. (SECOND
MOSCOW MED INST IM N. I. PIROGOV). (KL, 3-61, 231).

DOBROKHOTOVA, M.N., kand.med.nauk; MASSEM, M.T.; POLYAKOVA, S.G.; IOFFE, R.A.; COL'DGHTEYN, V.D. (Moskva)

Immediate results of combined chemotherapy with the use of cycloserine. Klir.med. no.3:130-136 162. (MIRA 15:3)

1. In kafedry tuberkuleza (pav. - zasłuzbennyy deystel nauki prof. A.Ye. Rafukhin) TSentral nogo instituta usoverskenstvovaniya vrachey, TSentral noy klinicheskoy bol nitay imeni Senesiko Ministerstva putey soobshcheniya (glavnyy vrach A.A Potsubeyenko) i bol nitsy "Vysokiye gory" (glavnyy vrach V.G. Samochatov). (CYCIOSERINE) (CHEMOTHERAPY)

GOL'DSHTEYN, V. D.

Disorders in the composition of the peripheral blood developing as a result of the therapeutic use of phthivazide, Frobl. gemat. 1 perel, krovi no.4:29-32 462. (MIRA 15:4)

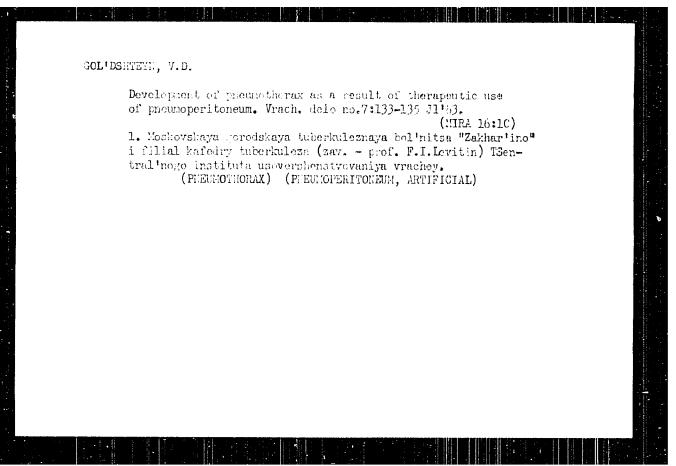
1. Iz Moskovskoy tuberkuleznoy klinicheskoy bolinitsy "Zakharino" (glavnyy vrach V. P. Petrik) i filiala kafedry tuberkuleza (zav. - prof. F. I. Levitin) TSentralinogo instituta usovershenstvovaniya vrachoy.

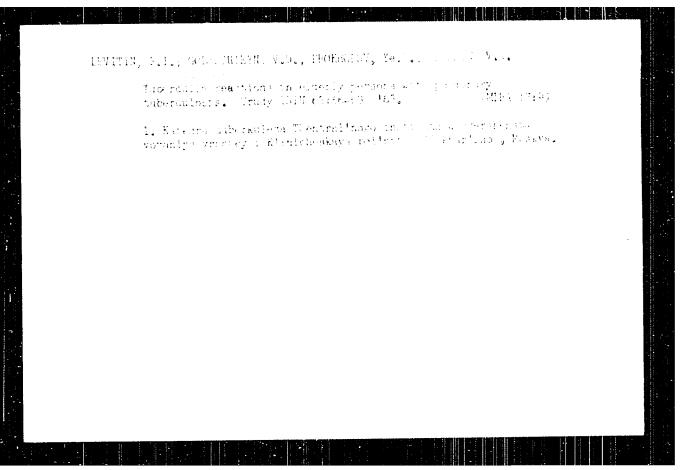
(PHTHIVAZIDE-..TOXICOLOGY)
(BLOOD...DISEASES)

GOL'DSHTEYN, V.D.; MIRINOV, G.B. (Moskva)

Combination of tuberculosis of the lungs and actinomycosis.
Klin. med. 40 no.12:107-110 D '62. (MTM 17:2)

1. Iz Moskovskoy gorodskoy klinicheskoy telerkadennoy bol'nitsy No.3 "Zakhar'ino" (glavny vrach V.P. Fetrik) i filiala kafedry tuberkuleza (zav. pref. F.I. Lavitin)
TSentral'nogo instituta acovershenstvovaniya vrachey.





GOLHGREYN, V.B.; MELTEN, G.B.

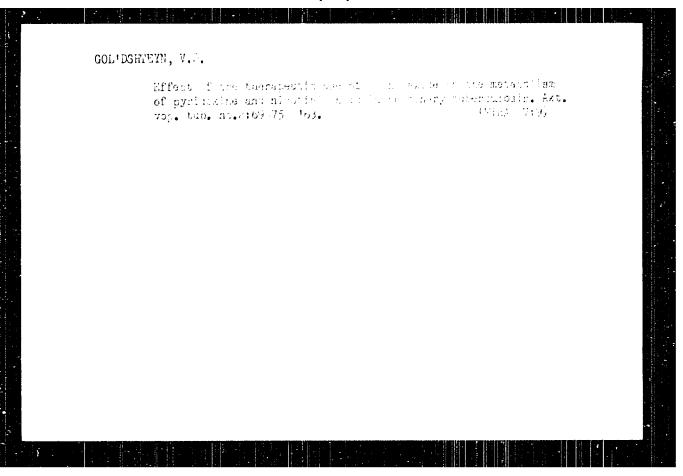
Commination of tabecolosis and primary lung second. Fruly
TSIU Ca:102-108 - tea. (MET 17:9)

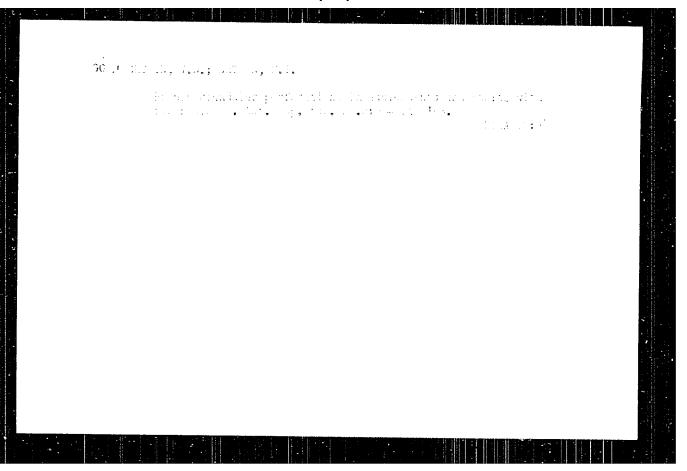
1. Kirnicheskaya beliniban "Sadharlino", M. aga i kifedra
tuberkalena Tembralinogo institutu uneversasnety ceniya
vrachey.

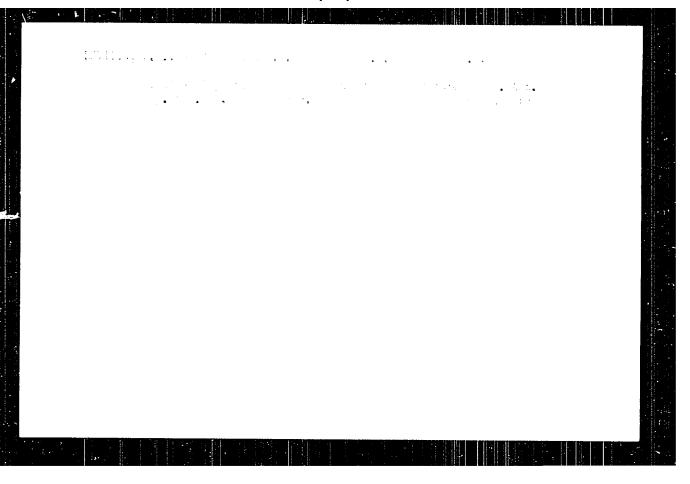
COL'DESTET:, V.D.; MIRINOV, C.B.

Diagnosis of primary lung cancer in tuberculous patients. Ter.
arkh. 35 no.7:106-108 J1'63 (MIRA 17:1)

1. Iz Msovskoy gorodskoy klinicheskoy tuberkuleznoy bol'nitsy
No.3 "Zakhar'ino" (glavnyy vrach V.P.Petrik, nauchnyy rukovoditel' - prof. F.I. Levitin).



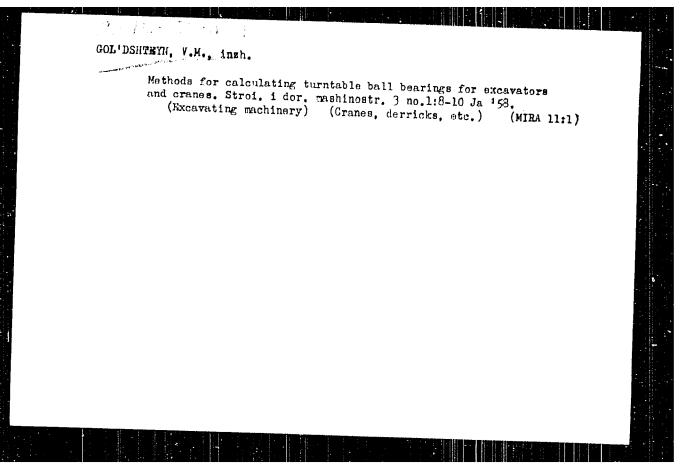


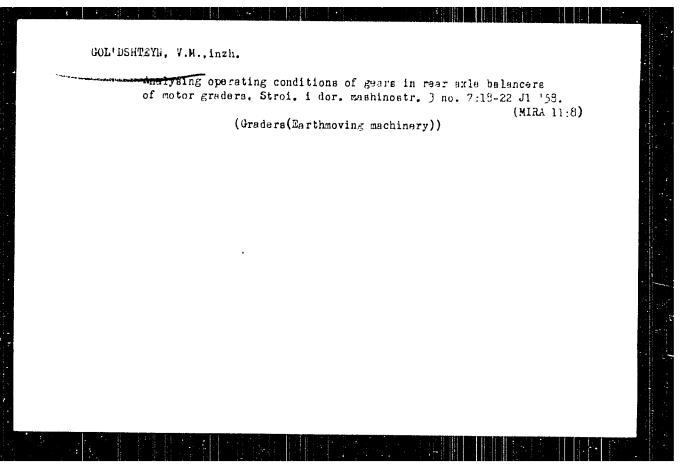


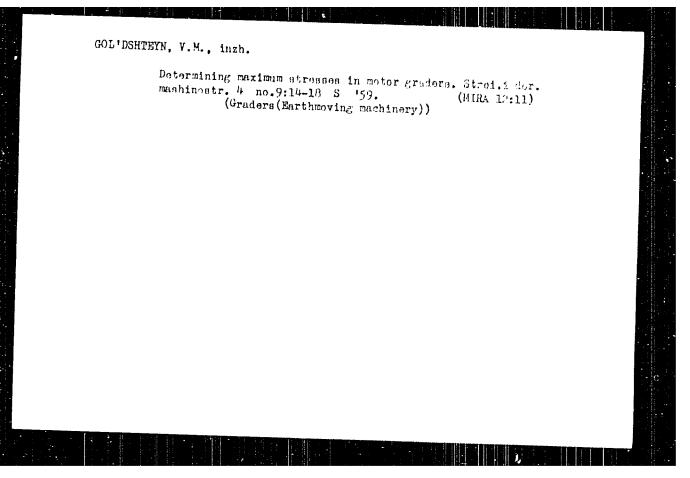
HAVITIM. F.I.; OSLIBSHERY, W.F.; MULISH, F.A.; HROKHOPOV, Ye.F.; FRADEIM, V.F.; CHAUSOVSKATA, M.M.

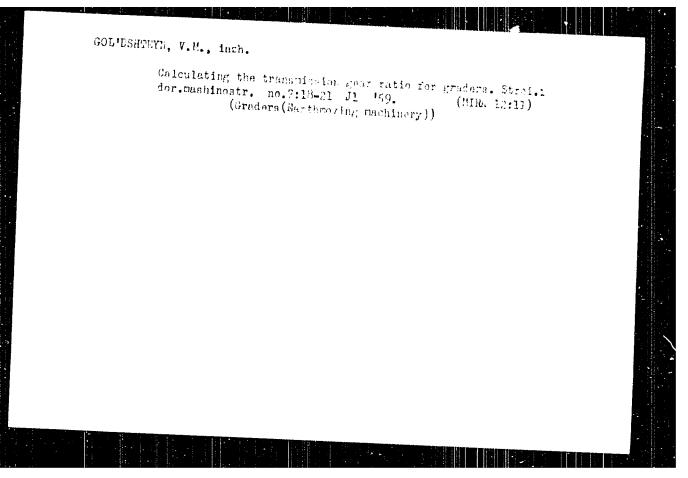
Tochnic ami evaluation of the results of taberculin tests. Probl. (Mina 19:1)

1. In karddry tub rauloma (vav. - maglumbennyy deyatel' manki ; ref. A.Ye. Habukhin) TSentral'noro instituta usovershenstvovaniya vrachey.

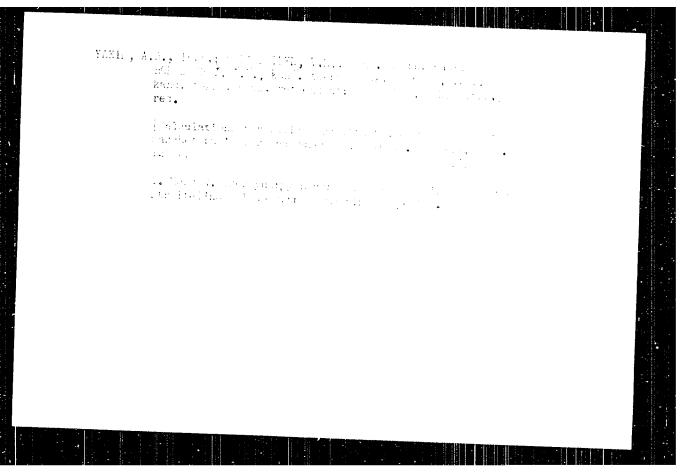


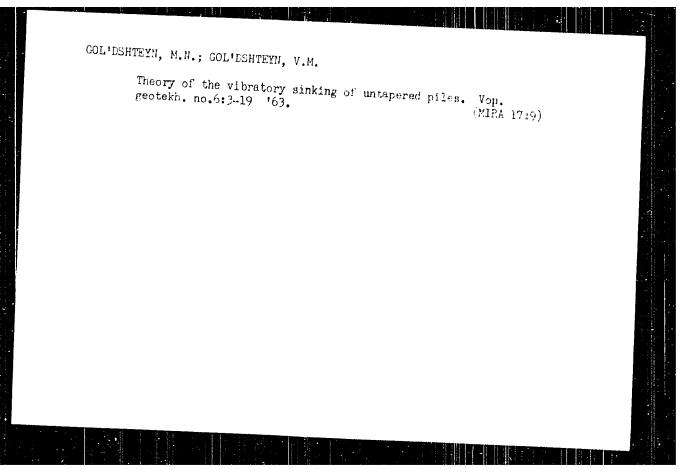


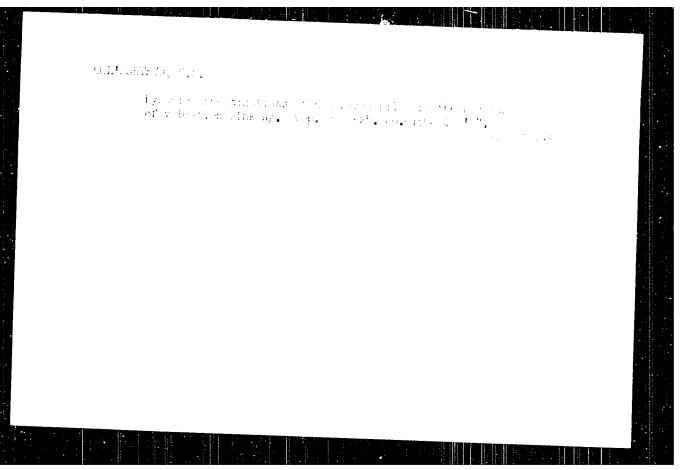


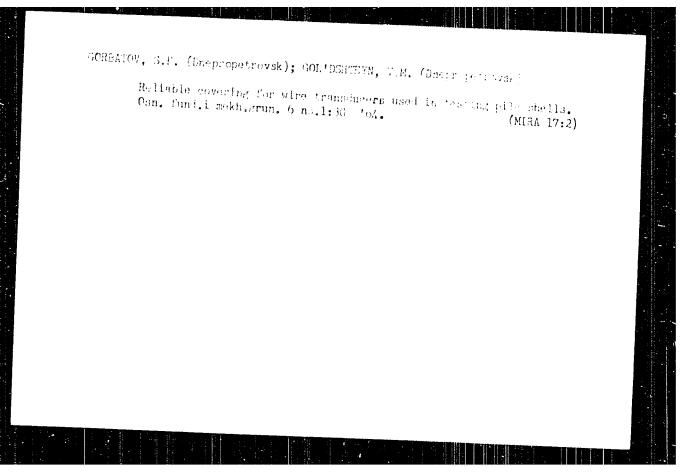


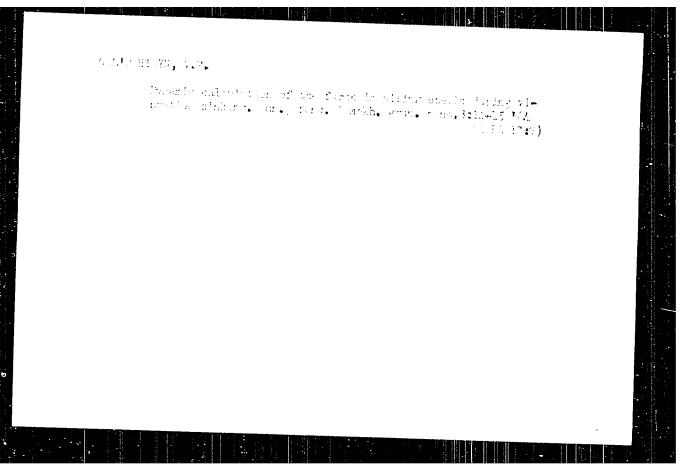
GOL'DIHTEYN, V. M., Cand Tech Sci "Experimental and theoretical study of the autograder dynamics when designing construction lines." Mos, 1961. (Min of Higher and Sec Spec Ed RSFSR. Mos Automobile-Roads Inst) (KL, 3-61, 242)	
- 217 -	

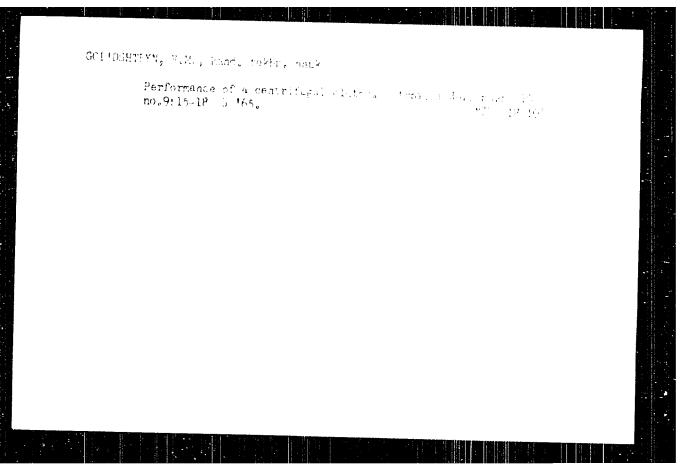


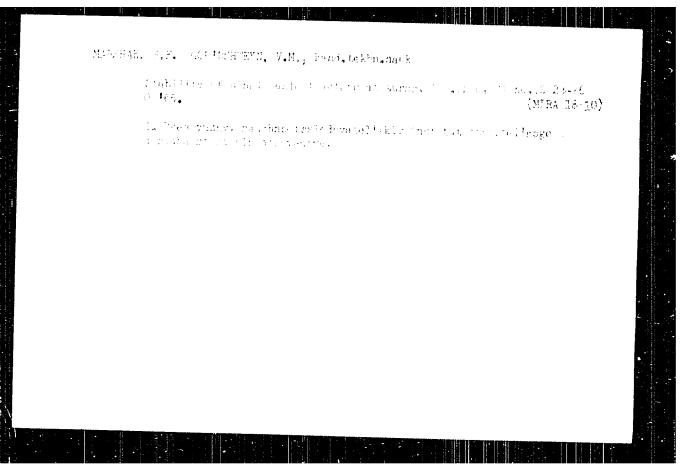








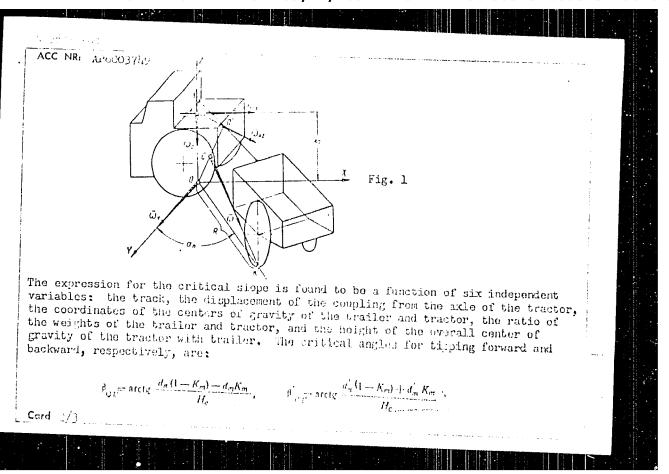


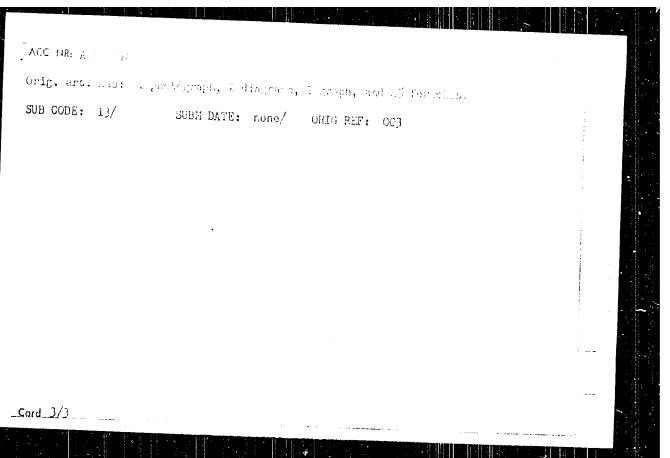


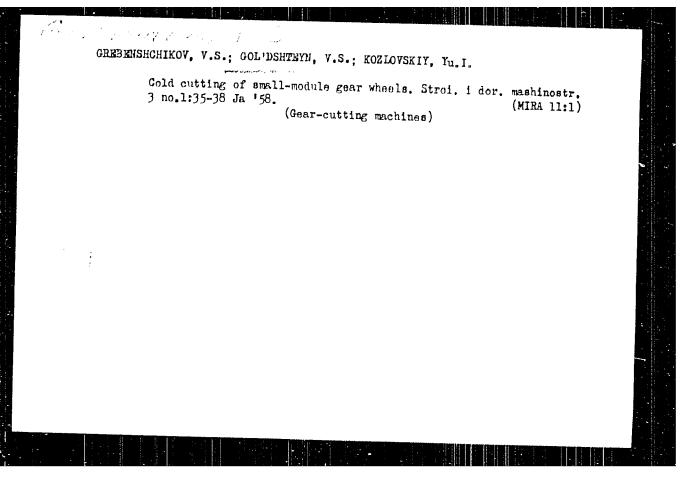
L 35829-66 ACC NR: AP6003749 SOURCE CODE: UR/0113/65/000/010/0023/ (A)0026 AUTHORS: Marshak, S. F.; Gol'dehteyn, V. M. (Candidate of technical & 6 sciences) ORG: VNIIStroydormash The stability of single-axle tractors in the turning position TITLE: SOURCE: Avtomobil'naya promyshlennost', no. 10, 1965, 23-26. TOPIC TAGS: tractor, vector, motion stability, coordinate system, vehicle engineering ABSTRACT: The tilting of a trailer on level ground relative to a threedimensional coordinate system is considered (see Fig. 1). The coordinate origin (point 0) is at the center of the contact line of the wheels of the tractor. The absolute value of the angular velocity and the direction cosines Card 1/3 UDC: 629.114.2.001.5

"APPROVED FOR RELEASE: 09/24/2001 CIA-RI

CIA-RDP86-00513R000515710016-5



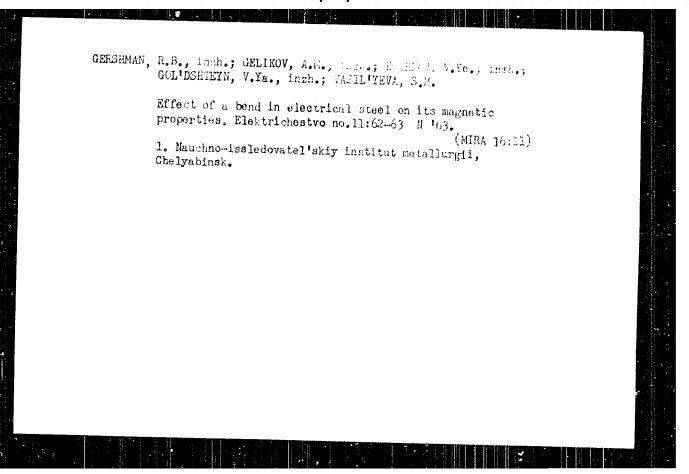




Kinetics of recrystallization of electrical steel during its annealing, Izv. AN SSSR. Otd. tekh. nauk. Met. i topl. no.6: 61-66 N-D '62. (MIRA 16:1)

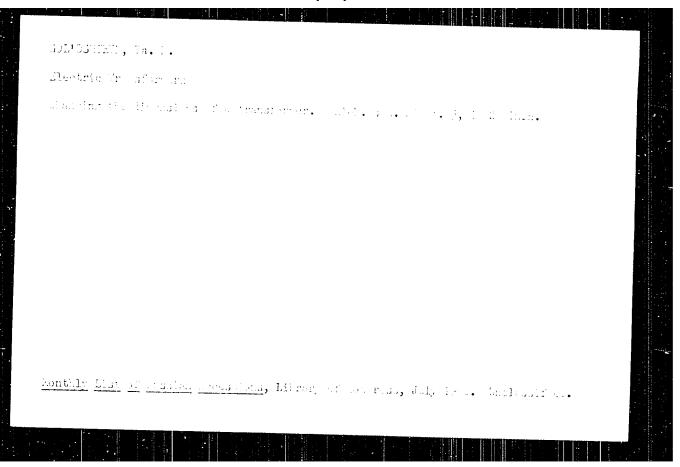
(Steel-Heat treatment)

(Crystallization)



Recrystallization stages in transformer steel. Fiz. met. i metalloved. 15 no.5:685-689 My '63. (MIRA 16:8)

1. Nauchno-issledovatel'skiy institut metallurgii. Chelyabinsk. (Steel--Metallography) (Grystallization)



8 (3)

807/112-57-5-10214

Translation from: Referativnyy zhurnal. Elektrotekhnika. 1957. Nr 5, p 92 (USSR)

AUTHOR: Gol'dshteyn, Ya. M.

TITLE: Speeding-up the Process of Drying the Transformer Core-and-Coil Assembly (Suggestion by G. G. Lisin) (Uskoreniye protsessa sushki vyyemnoy chasti transformatorov /predlozheniye G. G. Lisina/)

PERIODICAL: Sb. rats. predlozh. M-vo elektrotekhn. prom-sti SSSR, 1956, Nr 1(59), p 19

ABSTRACT: Transformer core-and-coil assembly drying by the induction-loss method in its own tank, without application of vacuum, can be speeded up by blowing hot air directed from bottom to top.

A.G.K.

Card 1/1

8 (3)

SOV/112-57-5-10213

Translation from: Referativnyy zhurnal, Elektrotekhnika, 1957, Nr 5, p 92 (USSR)

AUTHOR: Gol'dshteyn, Ya. M.

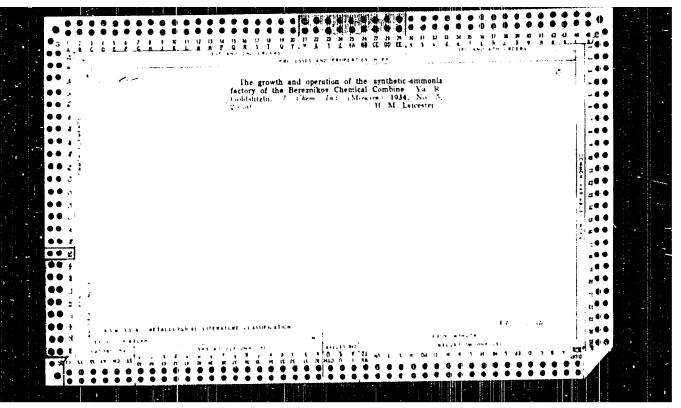
TITLE: A Method to Check the Equality of Turn Numbers in Wound Transformer Coils Connected in Several Parallel Groups (Suggestion by S. A. Farbman) (Sposob kontrolya ravenstva chisla vitkov v namotannykh katushkakh transformatora, vklyuchayemykh v neskol'ko parallel'nykh grupp /predlozheniye S. A. Farbmana/)

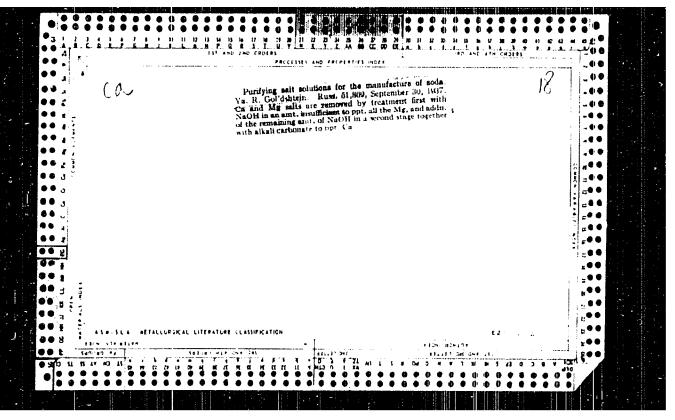
PERIODICAL: Sb. rats. predlozh. M-vo elektrotekhn. pro-sti SSSR, 1956, Nr 1 (59), pp 19-20

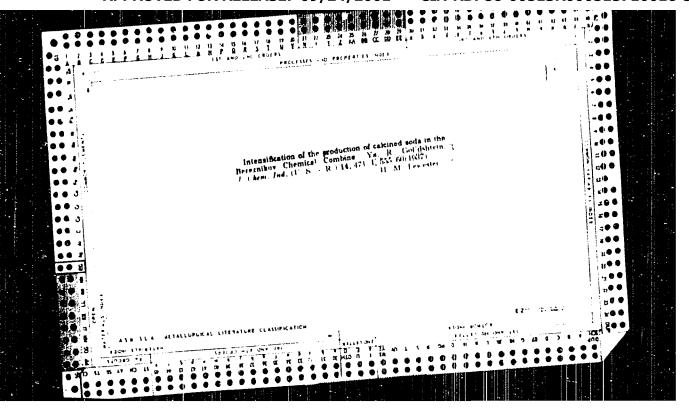
ABSTRACT: It is suggested that a short-circuit experiment, as a part of transformer test (with the core-and-coil assembly lifted from the tank), be made with 50-100% of the rated current for 30-45 minutes. If turn numbers in parallel circuits are unequal, the coils will heat unequally, which can be detected by hand.

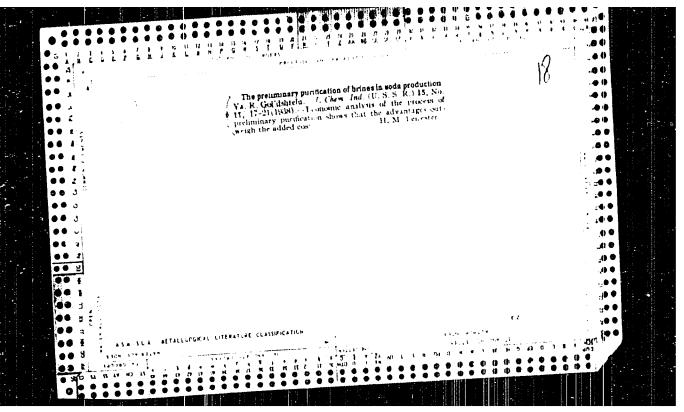
A.G.K.

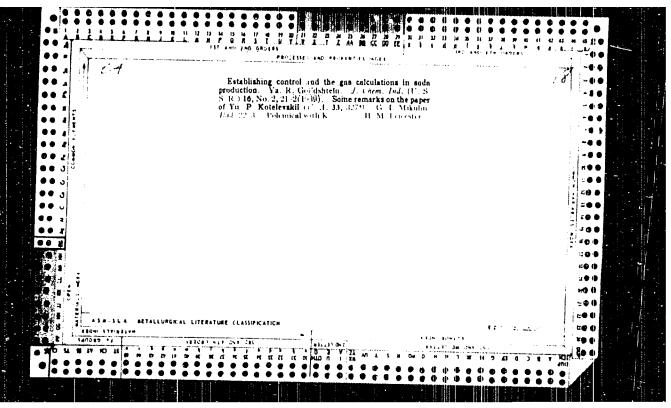
Card 1/1

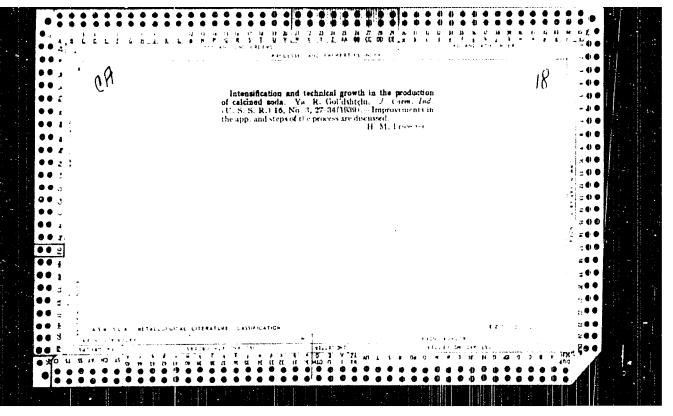


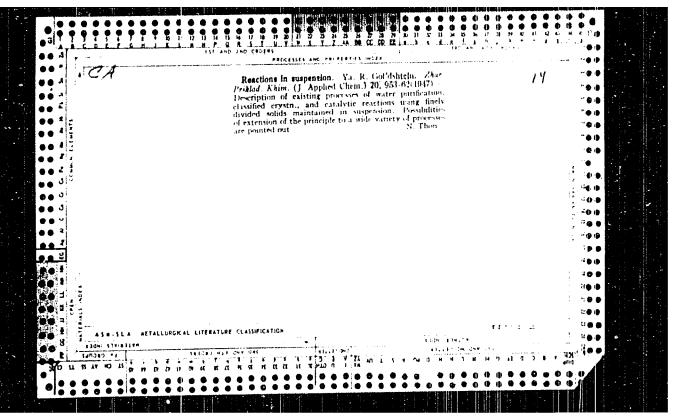






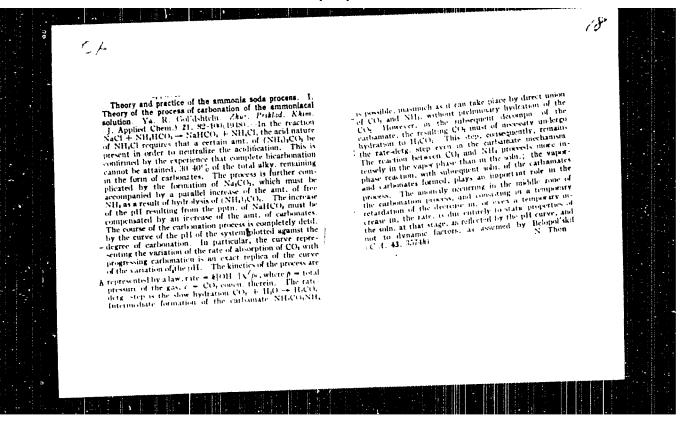




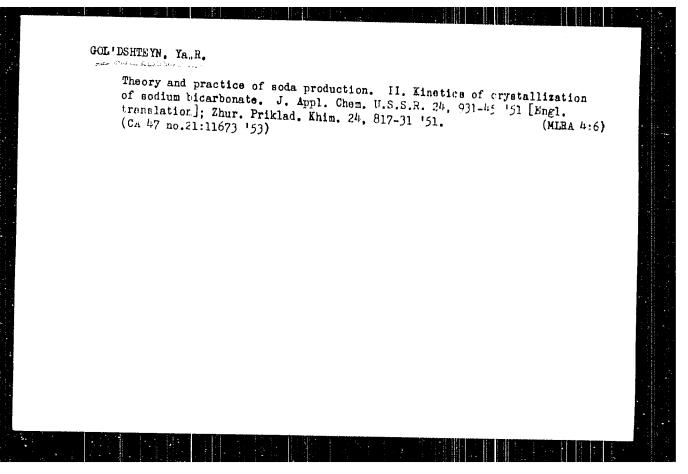


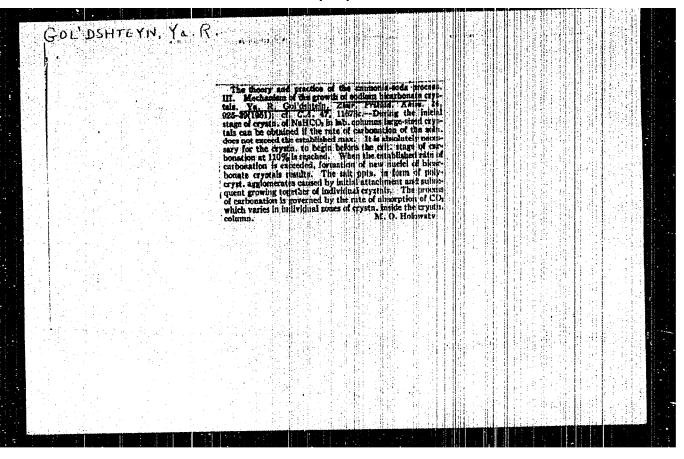
"APPROVED FOR RELEASE: 09/24/2001

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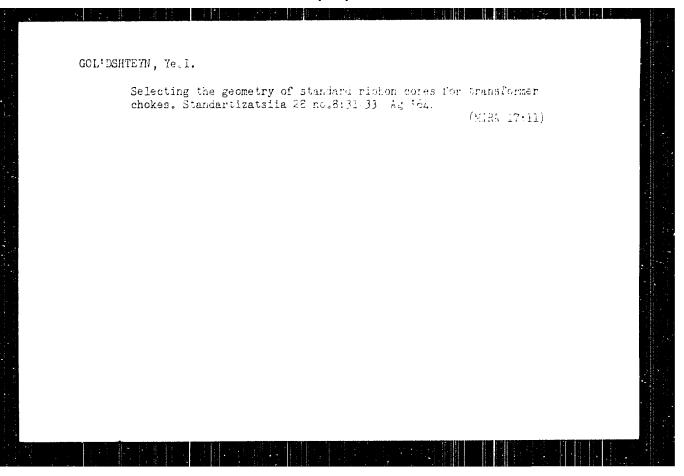








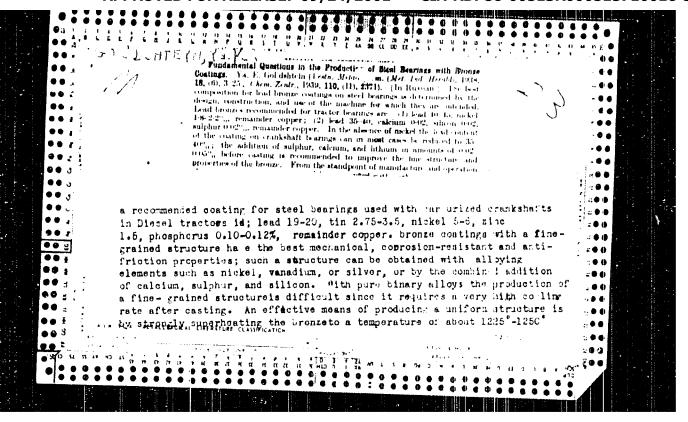
ACC NR: AR6005252	SOURCE CODE: UR/0058/65/000/009/H014/H014
AUTHOR: Gol'dshteyn, Yu. A.	43
TITLE: Concerning the signal to	noise ratio at the output of a mutual correlation
detector js	
SOURCE: Ref. zh. Fizika, Abs. 92	Zh113
REF. SOURCE: Tr. Hauchno-tekhn. vyp. 1, 1964, 77-81	konferentsii Leningr. elektrotekhn. in-ta svyazi,
TOPIC TAGS: signal to noise rati reception	io, signal noise separation, correlated noise, signal
	o is determined at the output of a mutually-correlat- noise-like signals. [Translation of abstract]
SUB CODE: 09	
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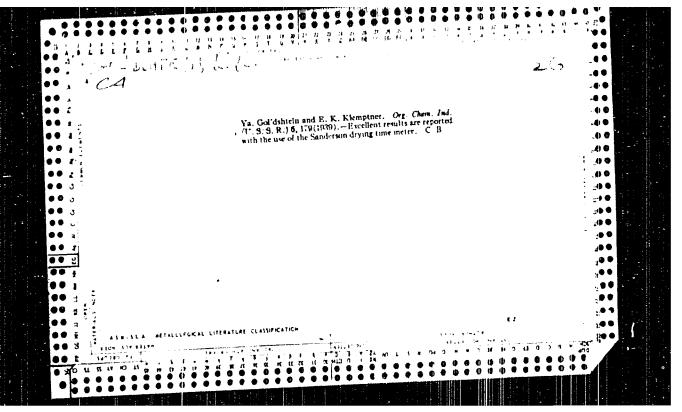


GOL'DSHTEYN, Ya.Ye., kand.tekhn.nauk

New economically alloyed carburizing steels with boron content.

Vest.mashinostr. 42 no.5:44-48 by 162. (MIRA 15:5)
(Boron steel)





TREASURE ISLAND BIBLIOGRAPHICAL REPORT

AID 357 - I

воок

PHASE I

Author: GOL'DSHTEYN, YA. YE.

Full Title: THEORETICAL AND PRACTICAL PROBLEMS IN HIGH-FREQUENCY

CURRENT TEMPERING OF CAST IRON

Transliterated Title: Voprosy teorii i praktiki v vysokochastotnoy

zakalke chuguna

Publishing Data

Originating Agency: All-Union Scientific Engineering and Technical

Society of Machine Builders. Urals Branch

Publishing House: State Scientific and Technical Publishing House

of Machine Building Literature ("Mashgiz")

Date: 1950

No. pp.: 30

No. of copies: 3,000

Call No.: TN672.V8

Text Data

This is an article from the book: VSESOYUZNOYE NAUCHNOYE INZHENERNO-TEKHNICHESKOYE OBSHCHESTVO MASHINOSTROITELEY. URAL'SKOYE OTDELENIYE, THERMAL TREATMENT OF METALS - Symposium of Conference (Termicheskaya obrabotka metallov, materialy konferentsii) (p.273-302), see AID 223 II Coverage: The hardening of working surface of cast iron by nitration with high frequency current and tempering at very low temperatures (below freezing) are discussed. Work of other investigators is reviewed and analysed together with the author's own experimental results. The allowable velocity 1/2

Voprosy teorii i praktiki v vysokochastotnoy zakalke chuguna

AID 357 - I

of heating and phase transformation in east iron at superfast heating are specificed in relation to the velocity of carbon disintegration in austenite. The rates of heating used in the experiment vary from 10° to 5,000°C per second.

The author's experiments and discussion are mainly related to the study of effects of various factors on hardness of castiron surface, depth of penetration, machanical properties and wearing ability. Attention is also given to the effects of high frequency current and alloying elements on hardening resistance to breaking and wear. 23 charts, 3 microphotographs, 7 tables.

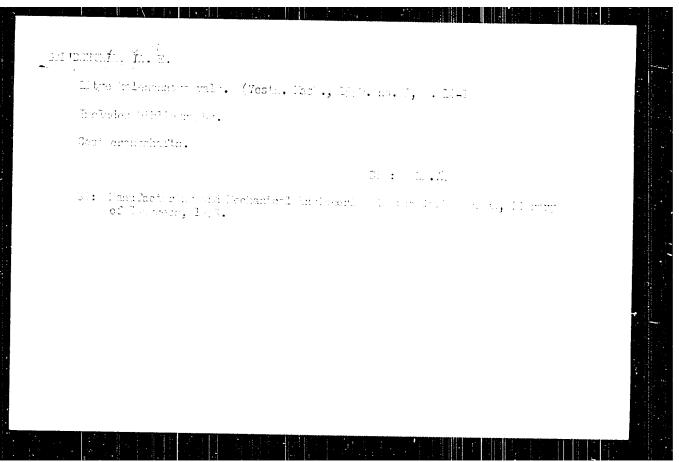
Purpose: For scientific workers

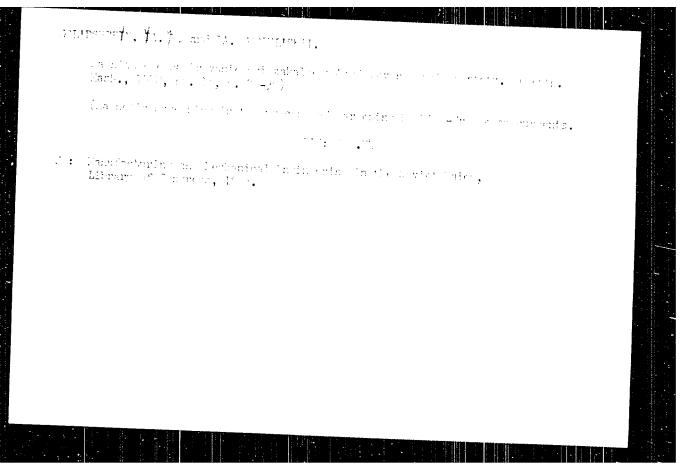
Facilities: None

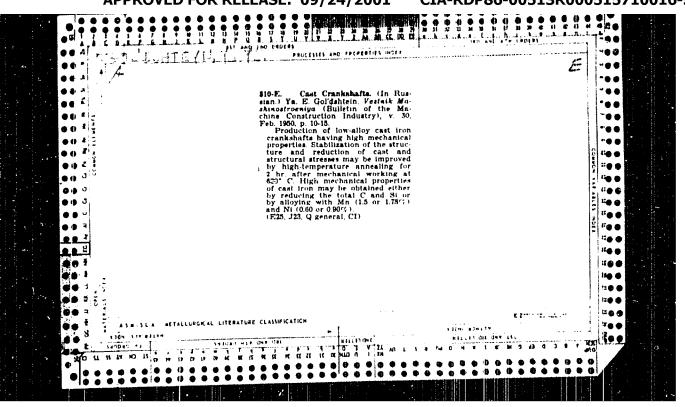
No. of Russian and Slavic References: 24 Russian (1931-50)

Available: Library of Congress.

2/2







GGLIDATEVA, VA. VE

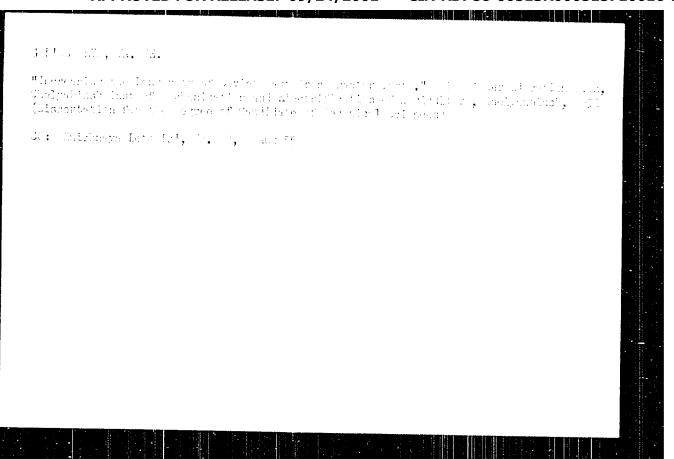
Cast Iren

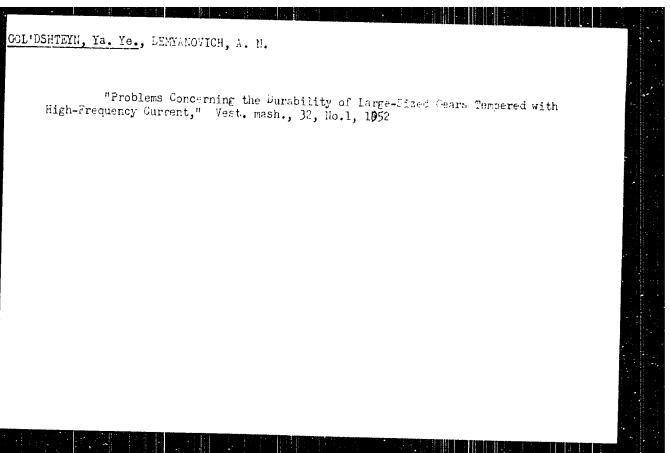
Some proparties of super-durable cast iron. Vest. mash. 21 Vo. 10, 1951.

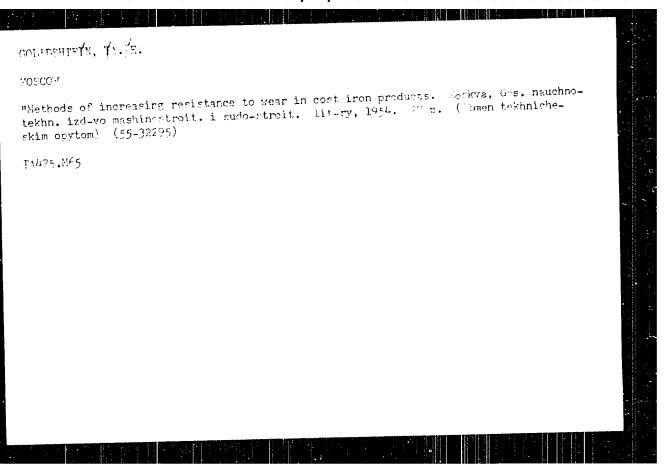
9. Monthly List of Russian Accessions, Library of Congress, Tester, 1953, Unclassified.

GOL'DSHTEYN, Ya. Ye.

"Surface Tempering Pig Iron instead of its Chilling in the Mold," Vest. mash.,
31, No.12, 1951







USSR/Engir	iee	ring - Metal hardening
Card 1/1	P	abl 128 - 12/26
Authors	1	Gol'dshteyn, Ya. E.
Title	3	The effect of hardening with high-frequency current heating on the strength of crude iron components
Periodical	t	Vest. mash. 2, 55-62, Feb 1954
Abstract	1	The casehardening of crude iron components with high-frequency current heating is described, and technical data is given on methods of heating, mechanical properties and the chemical composition of crude iron. Ten USSR references (1941-1952). Graphs; illustrations; tables; diagrams; drawings.
Institution	:	
Submitted		

PHASE I BOOK EXPLOITATION SOV/1703

Gol'dshteyn, Ya. Ye., Candidate of Technical Sciences, L.S. Lyakhovich, Candidate of Technical Sciences, L.L. Pyatakova, Engineer, and G.M. Trusenev, Engineer

Mikrolegirovaniye stali 45 dobavkoy bora (Boron Additives for Micro-alloying of 45 Steel) Moscow, AN SSSR, 1956. 13 p. (Series: Informatsiya o nauchno-issledovatel'skikh rabotakh. Tema 1, no.I-56-217) 870 copies printed.

Sponsoring Agencies: USSR. Gosudarstvennyy komitet po novoy tekhnike, and Akademiya nauk SSSR. Institut nauchnoy i tekhnicheskoy informatsii. Filial.

Exec. Ed.: A.I. Okuneva, Engineer; Ed.: L.M. Gopman, Engineer; Tech. Ed.: V.A Ponomarev.

PURPOSE: This book is intended for scientists and engineers working in the field of metallurgy.

Card 1/2

SOV/1703 Boron Additives for Microalloying (Cont.) COVERAGE: The cooklet gives the results of an investigation of the properties of boron-containing 45R steel developed by the Central Laboratory of the Chelyabinsk Tractor Plant in cooperation with the Department of Metallurgy of the Chelyabinsk Polytechnical Institute. At present, this steel finds wide application in the manufacture of critical parts of S-80 tractors. Active participation in the investigations was taken by TsNIIChERMET (Central Scientific Research Institute of Ferrous Metallurgy), and this organization was responsible for introducing 45R steel to industry. There are 5 references, of which 3 are Soviet and 2 English. TABLE OF CONTENTS: None given. This book is divided into the five following sections: 4 (1) Composition of the Steel 5 (2) Hardenability 8 (3) Mechanical Properties (4) Characteristics of Quenching Crankshafts of 45R Steel 11 by Means of High Frequency 14 (5) Conclusion AVAILABLE: Library of Congress GO/ad 6-18-59 Card 2/2

GOL'DSHTEIN, Yakov Iefimovich, GORBUL'SKIY, Il'ye Yakovlevich; PYATAEOVA,

GOL'DSHTEIN, Yakov Iefimovich, GORBUL'SKIY, Il'ye doktor tekhn.nauk.retsenzent;

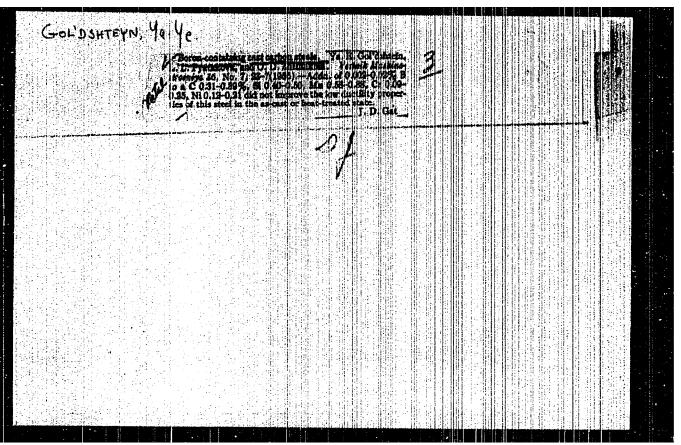
BEZUKIADNIKOV, M.A., inzh., red.; DUGINA, N.A., tekhn.red.

[Increasing the wear of tractor parts] Povyshenie delgovechnosti

trakternykh detalei. Moskva, Gos.nauchno-tekhn.izd-vo mashinostroit.lit-ry, 1966. 225 p. (kIRA 11:1)

(Tractors--Maintenance and repair)

"APPROVED FOR RELEASE: 09/24/2001 CIA-RDP86-00513R000515710016-5



PHASE I BOOK EXPLOITATION

882

Nauchno-tekhnicheskoye obshchestvo mashinostroitel'noy promishlennosti. Sverdlovskoye

Povysheniye kachestva i ekonomichnosti mashin (Increasing the Quality and Efficiency of Machinery) Moscow, Mashgiz, 1957. 626 p. 5,000 copies printel.

Additional Sponsoring Agency: Ural'skiy dom tekhniki.

Eds.: Pal'mov, Ye. V., Doctor of Technical Sciences, Sokolovskiy, V. I., Candidate of Technical Sciences; Reviewers: Bogachev, I. N., Doctor of Technical Sciences, Gorshkov, A. A., Doctor of Technical Sciences, Zhukov, P. A., Cardidate of Economic Sciences; Tech. Ed.: Sarafannikova, G. A.; Managing Ed. (Ural-Siberian Division of Mashgiz): Sustavov, M. I., Engineer.

FURPOSE: The book is intended for engineering and technical personnel.

COVERAGE: The book generalizes and synthesizes experience accumulated by the Ural plants and to some extent that of the Siberian plants in improving the technical and economic features of manufactured machines and in improving their quality. Data are also presented on attempts to lower the cost and to increase the quality of machines during the designing and production stages. The author Card 1/15

Increasing the Quality (Cont.) describes the shortening of the production cycle, reducing weight and divalong with improvement of operational qualities, increase in durability, finally improvements in the external appearance of machines. There are references of which 95 are Soviet, 2 German, and 1 English.	remetons and 98
TABLE OF CONTENTS:	9
Ways of Increasing the Quality and Economic Efficiency of Machines (Pal'mov, Ye. V., Doctor of Technical Sciences) Ch. I. Present Trends in Machine Design 1. Improvements in the Operational Features of New Machines (Beremov, D. I., Engineer) Choice of plan for a new machine Selection of a drive Mechanization and automation Choice of materials and allowable stresses Life of the machine	11 30 30 32 34 43 43 45
Card 2/15	

	882	
oreas	sing the Quality (Cont.)	
101 000	Automation and Mechanization in Modern Machines (Petukhov, P. A.,	16
2.	Automation and Mechanization in Abdass	
	Poeter of Technical Sciences)	43
	5 5 5 1 OUTCOME OF CASE	52
	Examples of automation devices	56
	Automatic regulation	52 56 57
	Tools of automation Mechanical production lines Mechanical production Methanical Production (Col'denteyn,	, ·
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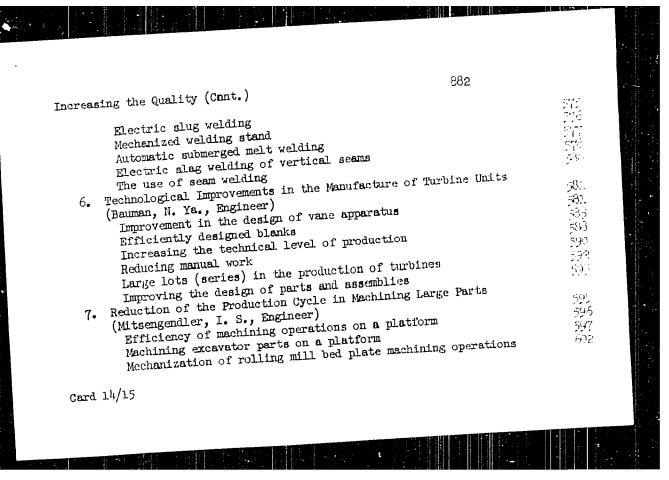
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Translationfrom:Referationly, zhurnal Metalburg , a 1988 No. 8 p.c. of (USSR)

AUTHOR: Goldshieyr, Ya Ye

TITLE: New Types of Steel in the Tractor Industrial No live mark:

stales s traktorostroyen A

PERIODICAL: Mashinestroitel 1957 Nr 12, pp +3 3.

ABSTRACT: In order to improve the quarty of main see har semade of

carbon steels and steel castings, as well aste provide substitutes for scarce allowed steels med an carbon steels containing 0.001 0.0025% Bare being employed. Steels containing Blexhbit improved deep hardering sharable steels and are readily manufactured. Both medium samble and awarahon steels containing approximately the critical formulation. Chemical composition and mechanical prop

erties of a number of steel's containing Board Molare given (15KbR 18KbGT 30KbGNT etc.)

1. Steel-Freduction 2. Steel-Composition

3. Steel - Mechanical properties

Card 1/1

AUTHOR: Gol'dshteyn, Ya.E., Lyazhovich, L.S., Camild te: of 1.33-5-17/27 Technical Sciences.

Properties of steel 45 containing boron. (Sveystva stali TITIE: 45 s borom)

"Stal!" (Steel), 1957, No.5, pg. 449-452 (U.S.S.R.)

ABSTRACT: The properties of stock 45P (developed by TSZIZETZ and Chelyabinsk Polytechnical Institute (Chelyabinskly Politektercheskiy Institut) and widely used in the tractor industry were compared with the properties of the same about 45 without boron and steel 45f2 which has an increased manganese content (1.4-1.8%). According to FOOT 1050-52 the composition of (1.4-1.8%) is as follows G: C = 0.42-0.30, G: C = 0.37, G: C = 0.42-0.30, G: C = 0.42-0.37, G: C = 0.42-0.37, G: C = 0.42-0.37, G: C = 0.42-0.37, G: C = 0.37, G: C = 0.37same composition with 0.002 - 0.000 of boron. Steel was made in 5 ton electric and 60 ton open hearth furnaces. Ferroboron or ferro-boral was introduced into the liquid metal when 1/3 - 1/2 of the ladle was filled or blaced on the bottom of the lalle. Preliminarily the metal was deoxidised with aluminium and titanium so that their contents were 0.04-0.06% Al and 0.05 - 0.04/ Ti which ensured the presence of the effective boron in the metal, which entered the composition of a- or s-solution or formed (when in excess) boron-containing Card 1/2

Properties of steel 45 containing boron. (Bont.)133-5-17/27 phase on grain boundaries (Fig. 1). The hardenability of the specimens from the above steels is shown in Fig. 2. The dependence of mechanical properties of steel specimens on the temperature of tempering in Figs. 3 and 4; the dependence of cyclic toughness on thermal treatment in Fig. 5; mechanical properties of specimens from crankshafts before hardening with high frequency currents in the table; the distribution of nardness along the depth of hardened layer - Fig. 6; and the micro-structure of the boundary zone between hardened and base metal in Fig. 7. It is concluded that steel 45 with boron can be recommended for the production of crankshafts and other responsible parts submitted to hardening with high frequency currents. There are 7 figures, 1 table and 2 Slavic references.

AVAILABLE:

Card 2/2

377/126-9-2-23/34

AUTHORS: Pystokovs, L. L. and Gol'dshteyn, Ya. Ye.

Influence of the Character of the Interaction of TTTLE:

Aluminium, Mitrogen, Boron and Titanium on Certain Properties of Steel (Vliyaniye kharakters vzaimodey tviya

olymainiya, azota, bora i titana na nekotoryje

aveyatva stali)

PERIODICAL: Fizika Metalloy i Metallovedeniye, 1958, Vol S, Kr &

pp 347-353 (USSR)

ABSTRACT: The aim of the work described in this paper was to

establish in the first approximation the character of the interaction in steel of boron, nitrogen and aluminius and the influence of their interactions on the properties of medium alloy obsel. The influence was investigated of the sequence of introduction into the liquid steel of misrogen and boron on the character of their interactions and thus on certain properties of boron-containing steels. The range of useful explication of titanium in such steels

is outlined. For the experiments two basic and one reference group of contings were made; the metal was

rapited in a 70 kg electric furnace with an acidic bottom. Prior to tepping the metal was deckidised with aluminium. Each variant of the castings was produced by the

Card 1/4

Influence of the Character of the Interaction of Aluminia, Mitrogen. Boron and Titanium on Certain Properties of Steel fractional meshed, displaiment of the steel with hisrogen ness effected by invrolucing cheateally pure sodius egualde (in sealed iron capsules) into the liquid metro egualde (in producing the first grown of energings your production of the bases of the first production the first grown of the first proposed it such a may place the boron one added to the pitro an-parished steel, whilst the castings of the percent group were remained from metal total which mistages (RECN) was added after it final decalds let of the steel and efter the boron has been introduced, The boron wer introduced in the form of a 9% ferroboral The Mir , reference amount, of castings was cost in the of the invectigated steels and the sequence of intro wing mitropen and boron are entered in Table 1, p 348. In Fig. 1 and 2 the influence on the hardenskility the "Steel 30" of bore and mitroger ad itions is compred; in Fig.5 the influence of nitriding on the hardenability or the boron-containing steel 45R is graphed. In Figs 3 and Card 2/4 A line-of-mature thotographs are reproduced. Fig 8 chows frequences of the Steel 45R ofter over-heating at 1275.0

307/126-6-2-23/34

Influence of the Character of the Interaction of Aluminium, Ritrogen, Boron and Titanium on Certain Properties of Steel

and subsequent heat treatment. The impact strength values are entered in Table 2, p 349. On the basis of the obtained results the following conclusions are arrived at:

The combined influence of boron, aluminium and mitro en on the properties of the steel depends to a considerable extent on the sequence of their introduction into the steel.

2. The established dependence of the influence of boron, aluminium and nitroger on the sequence of their introduction into the steel is due to differing mechanisms of their interaction.

5. On introducing boron into liquid steel after decridation with aluminium, boron nitrides no longer form (or form in insignificant quantities), since the nitrogen which is discolved in the steel is combined in stable aluminium nitrides; this ensures that the boron is maintained in the solid colution and explains its influence on the properties of the steel.

Card 4/4 4. On introducing or absorbing nitrogen in boron-

SUV/126-6-2-23/34 Influence of the Character of the Interaction of Aluminium, Nitrogen, Boren and Titonius on Contain Properties of Steel controlling atcol a portial or a total removal of the toron face the solid colution takes place due to the preservation for a tion of mitrides (carbenitrides). p. W. - lover includation to ever-heating of becomconstining proof in presence of titumium can be emplained for all fluctuate of presents of cheaning and the explained for all fluctuate of presenting by the fact that the alterior critical and for the many of high temperatures by the fact that it influences the boron distribution in the fact that it influences the boron distribution in the tourskip, states, There are a figures, 2 tables and 18 references, 9 of tables are 18 references, 9 of tables are 20 figures, 2 implies, 1 German.

ASSOCIATION: Mail: Institution (Chelpshin : Iractor Works, politoha leasthing leatibut (Chelpshin : Iractor Works, Cholyebinsk Polytechnical Institute) SUMMITTED: Novo len 1-, 1050 Card A/A 1. Steel--Properties 2 Abrainum--Metallurgical effects 3 Boron--Metallurgical effects 4. Nitrogen--Metallurgical effects 5 Titanium-Metallurgical effects

SOV4 17-59-1-1265

Translation from: Referativnyy zhurnal, Metallurgiva (1959 Nr. 1 p.17) (USSR)

AUTHORS: Goldshteyn, Ya. Ye Rossinskaya I A

TITLE:

Improving the Wear Resistance of Paddles of Shot-blasting Machines (Povysheniye iznosostovkosti lopatok drobem tnykh apparatov)

PERIODICAL: Tr. Uraliskogo politekhn in-ta. 1958 Nr 68 pp 105-i16

ABSTRACT: Comparative wear-resistance tests were carried out on paddles of shot-blasting machines; the paddles were made of 50G steel (which had been subjected to various heat-treatment procedures Normalization; quenching quenching with a subsequent low anneal, electricspark hardening or cementation with subsequent quenching). G(3)steel (quenching, quenching with subsequent cold hardening quenching in conjunction with cold hardening and tempering) graphitized steel, cast from containing Te - cast from with 5.5% $\widehat{C}_{\rm T}$ and 1.2% Ni as well as cast from hardfaced with Troker . Transi Ed Note Presumably W carbide | and stalinite | It was established that maximum wear resistance is exhibited by an ortensite-carbide structure. An austenitic structure is characterized by low wear resistance Electric-spark hardening proved to be ineffective

Card 1/2

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mproving the Wear Resistance of Paddles of Snot	- brasting Machibats
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value of 60 are recommended.	$T : \mathbf{F}$
Card 2/2	

SOV/137-59-.-.199

Translation from: Referativnyy zhurnal. Metallurgiya, 1959, Nr 1, p 164 (USSR)

AUTHORS: Gol'dshteyn, Ya. Ye., Balakhovskaya, T. B.

Means of Improving the Quality of Piston Rings TITLE: (Puti povysheniya kachestva porshnevykh kolets)

PERIODICAL: Tr. Ural'skogo politekhn. in-ta, 1958, Nr 68. pp 117-131

ABSTRACT: The investigations performed dealt with the following aspects of manufacture of piston rings (PR). The effect of the chemical composition of the cast iron on the microstructure of PRs; the effect of inoculants, inoculation procedures, and temperature schedules of smelting and pouring on the structure of the PR's: the effect of mold risers on the microstructure of cylinders. The mechanical and wear-resistance properties of PR's were examined, together with manufacturing processes of PR's made of high-strength cast iron. It was established that heat-resistance properties of PR's made of unalloyed high-strength cast iron (after a soaking period of 50 hrs at a temperature of 400°C) are identical to those of highquality PR's cast individually from stock-type high-alloyed cast iron, despite the fact that the gap in the latter was somewhat

Card 1/2

Means of Improving the Quality of Piston Rings

smaller prior to the beginning of the tests. The possibility of reducing the initial dimension of the joint in PR's made of high-strength cost from and consequently, the possibility of reducing their stressed state offers in additional means of no-creasing the heat-resistance properties of the PR's calculate and properties.

Alloying of the PR's calculate their roots in the PR's calculate and properties.

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18(3); 18(5); 18(7)

PHASE I BOOK EXPLOITATION

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Gol'dshteyn, Yakov Yefimovich

Mikrolegirovani: Wall i danta (electroalloying of Steel and Cast Iron),
Moscow, Masngiz, 1999. 197 p. Errata slip inserted. 4,500 copies printed.

Reviewer: P. V. Sklyuyev, Candidate of Technical Sciences; Ed.: B. P. Zakharov; Managing Ed. (Ural-Siberian Division, Mashgiz): A. V. Kaletina, Engineer; Tech. Ed.: N. A. Dugina.

PURPOSE: This book is intended for technical personnel of machine-building and metallurgical plants, design offices, and research and educational institutions.

COVERAGE: The author defines microalloying as the addition of individual elements or their compounds, in amounts not to exceed 0.1% of the final composition, to the molten alloy base metal for the purpose of improving mechanical and other properties of the material. This addition may sometimes be carried out simultaneously with deoxidation. The term microalloying (Russian "mikrolegirovaniye") was coined by S. M. Vinarov. The book deals with basic problems in the theory of the microalloying of steel and cast iron. The effect of small additions of

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3/137/60 000/009/020/029 A0.2 /AC.21 1711 Translation from Referativnyy charmal, Metallungips, 170, 50 %, 5. 258, # 21601 Gol'dshteyn, Ya.Ye., Zhishakina, O.D. AUTHORS. The Effect of Certain on the Diracture and Direction of Table and TITLE Forged Steel PERIODICAL: Visb. Redkizemelin, elementy vistalyako tubliwako Miurow, Metalloumyindat, 1959, pp. 130-158 The authors investigated the wifest of Ge in the structure and properties of cast carbon steel of $0.30~(1.9)^{10}$. The $0.10^{10}~(1.00)$ bgride. Co was introduced in the form of 9^{11} FewCe in amounts of 0.11~06~(1.00) in ring to calculate tions). It was found that Ce increased considerably the districtly and districtly of cast steel and also promotes effectively desurfurization of steel. Optimum amounts of Ce addition (in %) were for Laron. steel 0.220.3 int for steel alloyed with NI, Cr and Si 0.10-0.15 In all the in a base tray to amount a resulties Card 1/2

Biffect of Certim on the Structure and Properties of Cast and Cast and

177.55 Table 157

AUTHOR: Gol dsnyeyn, Ta. Va., Wand date of trearns as country

rTTLM: rellurium in dteel (rellur v stali) PERIODIJAL: Stal | 1959 Ar 2. pp 156 159 (LUDA)

ABSTRACT: The influence of shall additions of tellurian on the structure and properties of structural steel was

investigated. The experimental hears were carried out a 50 kg induction furnace and in a conclustric furnace (in both cases with acid lining). Various amounts of pure tellurium were introduced this static extell dasting ladius into which the describing their steel was that ferred from the tapping ladie out the investigation I age wedge-lake specimens (last in day coles) and ones, linguist were used an investigation of the accrestrature and subjurt printenade from cast wedge scecimens and longitudinal sections of the ingots did not show any noticeable influence of tellurious of the same or of investal transmittance of dendrith surrouses—songing of experimental nears containing from 0.01+ to 0.-0, of training was normal without the formation of cracks or other infects providing

the mangamese content was not lower than Carl with a

Card 1/4

1377 : 37-63-2-1972

Wellurium in Steel

maingains content of 0.15 all experiences to the cores containing telluck a thought the netermination of erica ca imageracures mais applicable teligram, cas one smith indicates on their position increasing all by a secat a content of tellurism of O. L. The follower of terlucium en tie mechanical proporties of chest from the of the experimental nears of older St. C.18. Un 0.7; S 0.055: P 0.02) decxilled with 0.1% of atuminate and conversing 0.0. 0.2 and 15 of tellurum and 0.06 and 0.35 of tellurium and derium respectively is shown in table i and figure i. It was found that will rellerium convent of Cloud and work are yield grins of diest decreases and when the religious content above 0 1% plants may and impact supengra of steel deteniorates. A similarneous inproduction of devian cancels the negetice influence of rellurium on she mean mich properties of speak and, in the base of impact strength, even folds laprotecent is obsainal The influence of melluria, or the grain firs in Leating gas involutigated in the temperation tempe 500-1500 It was found that we also by the wide tell about expression

Card 2/4

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Tellurium in Steel

decreases the size of secondary grains increasing their stability to growth on heating up to $11^{\circ}0^{\circ}0^{\circ}$ inclusive (fig.5 and table 2) and snarply decreases the mardenathing of steel (fig.4). The influence of tellurium on the distribution of carbon along the depth of the carburised layer is shown in fig.5. Microalloying with tellurium decreases the intensity of carburisation of steel during the comentation process which permits avoiding eversaturation of the surface layers with carbon and related to it excessive brittleness. On the basis of the results obtained microalloying with tellurium is recommended for a wide range of structural steels in all bases when it is necessary: a) to obtain a fine grain surmature already in rolled, forged or stamped products; b) to decrease the sensitivity of steel to overheating and c) to increase the cardenability of the whole parts or their working surfaces with simultaneous decrease of mardenability

Card 5/2

50V/1359-30-4-19/85

Tellurium in Oteel

and tendency to the formation of bardening dealer. There are 5 figures and 2 tables

ASSOCIarion: onelyabinesis Fraktornyy Saved (Chelyabinak Francis Works)

Card 4/4